

Amendments to the Specification

- 1.) Please replace the abstract with the following amended abstract:

LC
2/20/07

The present invention relates generally to the problem of filtering, decimation or interpolation and frequency conversion in the digital domain, and more particularly to its use in wideband multichannel receiver, channelisation, and transmitter, de-channelisation, structures. The invention combines a stand-alone fast convolution algorithm which is further modified and then combined with additional signal processing. By intelligently splitting the filtering effort between the modified fast convolution algorithm block and an additional signal processing block a synergy is created between the two blocks which provides for decreased costs, reduced delay and a reduction in the size of the ~~FFTs~~ Fast Fourier Transforms (FFTs). The resulting advantages are especially useful in any system handling multiple channels simultaneously, but especially where there exist strict requirements on both delay and on input ~~FFT~~ Fast Fourier Transform (FFT) size.

- 2.) Please delete the paragraph beginning at page 10, line ~~6~~ ⁵.

09/731,775



Patent
Attorney's Docket No. 003250-235

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
)
Richard HELLBERG) Group Art Unit: 2661
)
Application No.: 09/731,775) Examiner: Unassigned
)
Filed: December 8, 2000)
)
For: A METHOD AND APPARATUS)
FOR DIGITAL CHANNELISATION)
AND DE-CHANNELISATION)
)
)
)

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SUPPLEMENTAL PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Further to the Preliminary Amendment dated December 8, 2000, and prior to
examination, kindly amend the above-identified application as follows:

IN THE SPECIFICATION

insert below title
Kindly ~~replace~~ the paragraph beginning at page 1, submitted with applicant's

Preliminary Amendment dated December 8, 2000, with the following:

--This application is a continuation of International Application No.

PCT/SE99/00971 filed on 4 June 1999, which designates the United States, and which

International Application was published by the International Bureau in English on 16

December 1999.--

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